RAPPORT DE RECHERCHE INTERNATIONALE

(article 18 et règles 43 et 44 du PCT)

Référence du dossier du déposant ou du mandataire 76-0567	POUR SUITE voir la notification de transmission du rapport de recherche internationale (formulaire PCT/ISA/220) et, le cas échéant, le point 5 ci–après		
Demande internationale n°	Date du dépôt international (jour/mois/année)	(Date de priorité (la plus ancienne) (jour/mois/année)	
PCT/FR 00/00423	18/02/2000	18/02/1999	
Déposant SCHLUMBERGER SYSTEMES			
	onale, établi par l'administration chargée de la re e copie en est transmise au Bureau internationa mprend feuilles.		
X II est aussi accompagné d	fune copie de chaque document relatif à l'état d	de la technique qui y est cité.	
	recherche internationale a été effectuée sur la b posée, sauf indication contraire donnée sous le		
la recherche international	e a été effectuée sur la base d'une traduction de	e la demande internationale remise à l'administration.	
ta recherche internationale a été é contenu dans la demande déposée avec la demand remis ultérieurement à l'a remis ultérieurement à l'a La déclaration, selon laqu divulgation faite dans la d La déclaration, selon laqu	effectuée sur la base du listage des séquences internationale, sous forme écrite. e internationale, sous forme déchiffrable par ordinistration, sous forme écrite. dministration, sous forme déchiffrable par ordinistration, sous forme déchiffrable par ordinielle le listage des séquences présenté par écritemande telle que déposée, a été fournie.	dinateur.	
	ines revendications ne pouvaient pas faire l' l'invention (voir le cadre II).	'objet d'une recherche (voir le cadre I).	
	u'il a été remis par le déposant. administration et a la teneur sulvante:		
le texte (reproduit dans le	le. l'abrégé est la Figure n°	compter de la date d'expédition du présent rapport 2 Aucune des figures	
parce que le déposant n'a		n'est à publier.	

RAPPORT DE RECHERCHE INTERNATIONALE





A. CLASSEMENT DE L'OBJET DE LA DEMANDE CIB 7 H04Q7/32

Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB

B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE

Documentation minimale consultée (système de classification suivi des symboles de classement) CIB 7 H04Q

Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche

Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si réalisable, termes de recherche utilisés)

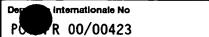
Catégorie °	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
Y	WO 98 10614 A (RITTER RUDOLF ;HEUTSCHI WALTER (CH); MARTSCHITSCH ANDREAS (CH); PT) 12 mars 1998 (1998-03-12) page 4, ligne 12 -page 5, ligne 25 page 8, ligne 10 -page 16, ligne 9; figures 1-3	1-5,14, 15,17-23
Y	EP 0 779 753 A (AT & T WIRELESS SERVICES INC) 18 juin 1997 (1997-06-18) colonne 5, ligne 40 -colonne 6, ligne 38; figure 4 colonne 11, ligne 25 - ligne 43; figure 9	1-5,14, 15,17-23
Α	WO 97 30561 A (ERICSSON GE MOBILE INC) 21 août 1997 (1997-08-21) page 12, ligne 6 -page 15, ligne 5; figure 3	1,17

Voir la suite du cadre C pour la fin de la liste des documents	Les documents de familles de brevets sont indiqués en annexe	
 'A' document définissant l'état général de la technique, non considéré comme particulièrement pertinent "E" document antérieur, mais publié à la date de dépôt international ou après cette date "L" document pouvant jeter un doute sur une revendication de priorité ou cité pour déterminer la date de publication d'une autre citation ou pour une raison spéciale (telle qu'indiquée) "O" document se référant à une divulgation orale, à un usage, à une exposition ou tous autres moyens "P" document publié avant la date de dépôt international, mais postérieurement à la date de priorité revendiquée 	T' document ultérieur publié après la date de dépôt international ou la date de priorité et n'appartenenant pas à l'état de la technique pertinent, mais cité pour comprendre le principe ou la théorie constituant la base de l'invention X' document particulièrement pertinent; l'invent tion revendiquée ne peut être considérée comme nouvelle ou comme impliquant une activité inventive par rapport au document considéré isolément Y' document particulièrement pertinent; l'inven tion revendiquée ne peut être considérée comme impliquant une activité inventive lorsque le document est associé à un ou plusieurs autres documents de même nature, cette combinaison étant évidente pour une personne du métier & document qui fait partie de la même famille de brevets	
Date à laquelle la recherche internationale a été effectivement achevée 15 mai 2000	Date d'expédition du présent rapport de recherche internationale 23/05/2000	
Nom et adresse postale de l'administration chargée de la recherche internationale Office Européen des Brevets, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016	Baas, G	

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RAPPORT DE RECHERCHE INTERNATIONALE





		PC R 0	0/00423		
C.(suite) D	(sulte) DOCUMENTS CONSIDERES COMME PERTINENTS				
Catégorie °	Identification des documents cités, avec, le cas échéant, i'indicationdes passages p	ertinents	no. des revendications visées		
A	EP 0 344 989 A (TOKYO SHIBAURA ELECTRIC CO) 6 décembre 1989 (1989-12-06) colonne 2, ligne 52 -colonne 3, ligne 51 colonne 7, ligne 3 -colonne 9, ligne 2 colonne 11, ligne 22 - ligne 39		1,17		
A	US 5 428 666 A (FYFE KIPLING W ET AL) 27 juin 1995 (1995-06-27) colonne 3, ligne 59 -colonne 5, ligne 56		1,17		
A	WO 92 19078 A (COMVIK GSM AB) 29 octobre 1992 (1992-10-29) cité dans la demande le document en entier		1,17		

1

INTERNATIONAL SEARCH REPORT

ntom pa

on patent family members

Internal Application No PC R 00/00423

		Publication	•	Patent family	Publication
cited in search report		date		member(s)	date
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			SE	9101105 A	03-08-1992
			SG	46158 A	20-02-1998

PCT

NOTIFICATION D'ELECTION

(règle 61.2 du PCT)

Expéditeur: le BUREAU INTERNATIONAL

Destinataire:

Commissioner

US Department of Commerce

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

ETATS-UNIS D'AMERIQUE

en sa qualité d'office élu

Date d'expédition (joui/mois/année)
01 novembre 2000 (01.11.00)

Demande internationale no PCT/FR00/00423

Date du dépôt international (jour/mois/année)

18 février 2000 (18.02.00)

Référence du dossier du déposant ou du mandataire

76-0567

Date de priorité (jour/mois/année) 18 février 1999 (18.02.99)

Déposant

BONGERS, René

L'office désigné est avisé de son élection qui a été faite:
dans la demande d'examen préliminaire international présentée à l'administration chargée de l'examen préliminaire international le:
08 septembre 2000 (08.09.00)
dans une déclaration visant une élection ultérieure déposée auprès du Bureau international le:
L'élection X a été faite
avant l'expiration d'un délai de 19 mois à compter de la date de priorité ou, lorsque la règle 32 s'applique, dans le délai visé à la règle 32.2b).

Bureau international de l'OMPI 34, chemin des Colombettes 1211 Genève 20, Suisse no de télécopieur: (41-22) 740.14.35 Fonctionnaire autorisé

Diana Nissen

no de téléphone: (41-22) 338.83.38

Formulaire PCT/IB/331 (juillet 1992)

FR0000423

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

	(PCT Article	e 36 and Rule 70)	9/9138/9
Applicant's or agent's file reference 76-0567 FOR FURTHER ACTION SeeNotificationofTransmittalofInternational Prelimentary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/FR00/00423	International filing da		Priority date (day/month/year)
International Patent Classification (IPC) or n	18 February 20		18 February 1999 (18.02.99)
H04Q 7/32	anona disconstitution	iu ii C	
Applicant	SCHLUMBERG	ER SYSTEMES	
This international preliminary exami and is transmitted to the applicant ac	ination report has been percording to Article 36.	prepared by this Intern	national Preliminary Examining Authority
2. This REPORT consists of a total of	8 sheets,	including this cover s	heet.
amended and are the basis for	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have bee amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Ru 70.16 and Section 607 of the Administrative Instructions under the PCT).		
These annexes consist of a tot	tal ofs	sheets.	
3. This report contains indications relating to the following items:			:
Basis of the report		,	
II Priority			
III Non-establishment o	f opinion with regard to	novelty, inventive ste	p and industrial applicability
IV Lack of unity of inve	ention		
V Reasoned statement of citations and explana	under Article 35(2) with ations supporting such st	h regard to novelty, inv tatement	ventive step or industrial applicability;
VI Certain documents ci	ited		
VII Certain defects in the	e international application	on	
VIII Certain observations	on the international app	olication	
•			
Date of submission of the demand		Date of completion of	f this report
08 September 2000 (08.0	09.00)	20 A	April 2001 (20.04.2001)
Name and mailing address of the IPEA/EP		Authorized officer	
Facsimile No.		Telephone No.	

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/FR00/00423

I.	Basis	of the re	eport	
1.	With	regard to	o the elements of the international application:*	
		the international application as originally filed		
	$\bar{\boxtimes}$	the des	cription:	
		pages	1-17	, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	-
	\boxtimes	the clai	ms:	
	ك	pages	1-27	, as originally filed
		pages	, as amended (together with any s	
		pages		, filed with the demand
		pages	, filed with the letter of	
	\boxtimes	the drav	wings:	
	التسكا	pages	1/2-2/2	, as originally filed
		pages		
		pages	, filed with the letter of	_ ′
	\Box_1	he seque	nce listing part of the description:	
	ш.	pages		as asiainally filed
		pages		
		pages	, filed with the letter of	
2.	the ir	the lang	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). guage of publication of the international application (under Rule 48.3(b)). guage of the translation furnished for the purposes of international preliminary examination	which is:
3.	With prelin	minary ex	to any nucleotide and/or amino acid sequence disclosed in the international application was carried out on the basis of the sequence listing: ed in the international application in written form.	cation, the international
	Ħ		gether with the international application in computer readable form.	
	Ħ		ed subsequently to this Authority in written form.	
			ed subsequently to this Authority in computer readable form.	
		The sta	atement that the subsequently furnished written sequence listing does not go beyond tional application as filed has been furnished.	
			atement that the information recorded in computer readable form is identical to the write mished.	ten sequence listing has
4.		The am	endments have resulted in the cancellation of:	
			the description, pages	
			the claims, Nos.	
			the drawings, sheets/fig	
5.		This rep	ort has been established as if (some of) the amendments had not been made, since they have the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ve been considered to go
	Repla in thi and 7	s report	heets which have been furnished to the receiving Office in response to an invitation under A as "originally filed" and are not annexed to this report since they do not contain a	Article 14 are referred to mendments (Rule 70.16
**.	Any ro	eplaceme	nt sheet containing such amendments must be referred to under item 1 and annexed to this re	eport.

International application No. PCT/FR 00/00423

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-27	YES
		Claims		NO NO
	Inventive step (IS)	Claims		YES
		Claims	1-27	NO
	Industrial applicability (IA)	Claims	1-27	YES
		Claims		NO

- 2. Citations and explanations
 - 1. Reference is made to the following documents:

D1: WO 98 10614 A (RITTER RUDOLF; HEUTSCHI WALTER (CH); MARTSCHITSCH ANDREAS (CH); PT), 12 March 1998 (1998-03-12)

D2: EP-A-0 779 753 (AT & T WIRELESS SERVICES INC), 18 June 1997 (1997-06-18)

D3: WO 97 30561 A (ERICSSON GE MOBILE INC), 21 August 1997 (1997-08-21)

D4: EP-A-0 344 989 (TOKYO SHIBAURA ELECTRIC CO), 6
December 1989 (1989-12-06)

D5: US-A-5 428 666 (FYFE KIPLING W ET AL), 27 June 1995 (1995-06-27)

D6: WO 92 19078 A (COMVIK GSM AB), 29 October 1992 (1992-10-29), cited in the application.

2. The subject matter of Claim 1 does not appear to involve an inventive step under PCT Article 33(3) for the following reasons:

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Document Dl describes, according to the main features of Claim 1, a method for identifying a subscriber in a first and second telecommunication network, wherein the subscriber has a mobile station with a subscriber identification module including means for identifying itself with a first telecommunication network under a first identity, and means for identifying itself with a second telecommunication network under a second identity (cf. page 5, lines 9-21), [such that] said method includes the following steps, wherein:

- a first telecommunication network is defined as having priority over the second telecommunication network (see below);
- [when] the mobile station [is on] in the coverage area of the first telecommunication network [...], the subscriber identification module automatically identifies itself with the first telecommunication network under its first identity (page 11, lines 7-16; page 13, lines 1-5).

With regard to the fact that the first network (nominal network) has priority over the second (partner network), document D1 implicitly specifies this in that when the mobile, after a period in the partner network, is switched on in the nominal network, it once again selects the nominal network rather than the partner one. The networks are therefore given an order of priority.

The method described in document D1 differs from that of Claim 1 in terms of the following steps:

- when the subscriber identification module is identified in the second telecommunication network, a regular check is carried out to ascertain whether the mobile station enters the coverage area of the first telecommunication network by regularly re-initialising said mobile station;
- [when] the mobile station enters the coverage area of the first telecommunication network [...], the subscriber identification module automatically identifies itself with the first telecommunication network under its first identity, without any subscriber intervention.

The problem that the present invention aims to solve can therefore be considered to be that of providing automatic identification in a nominal network as soon as the coverage area of said nominal network is entered.

This problem has already been addressed in document D1. The solution described therein involves switching the device off and then on again, the latter systematically identifying itself with its nominal network if the mobile is within the coverage area thereof (cf. page 13, lines 1-25). However, said document immediately points out that a more elegant means of initiating the UBICOM programme (whereby identification is carried out with the desired network) could be envisaged by a person skilled in the art (page 13, lines 26-27).

A person skilled in the art, going over the prior art, would then have no difficulty in finding a solution to this problem in document D2, which

describes a method of registration with the most suitable network (same context as the present application). The identification method is periodically initiated when the mobile has not been identified with the optimal network thereof (cf. column 6, lines 19-38).

Consequently, a person skilled in the art, starting with the method defined in D1 and familiar with document D2, would experience no particular difficulty in applying the solution described in document D2 to arrive at the method of Claim 1.

3. The subject matter of independent Claim 17 does not appear to involve an inventive step under PCT
Article 33(3) for the following reason:

Claim 17 defines a module for carrying out the method of Claim 1, and does not contain any means capable of contributing an additional inventive step.

- 4. Dependent Claims 2-16 and 18-27 do not appear to contain any additional feature which, in combination with the subject matter of the main claim, might involve an inventive step (PCT Article 33(3)). The features thereof can either be directly derived from the documents cited in the prior art, or are alternative embodiments with no inherent inventive content. In particular:
 - (i) Claims 2 and 18: the fact that the method operates when the network coverage areas overlap is implicitly known from document D1 (page 12, line 24 to page 13, line 11).

- (ii) Claims 3 and 19: the fact that the programmes are located in a SIM board is already known from D1 (page 9, lines 6-13).
- (iii) Claims 4 and 20: the erasure of a location means LOCI is already described in D1 (page 13, lines 8-11).
- (iv) Claims 5 and 6: identification with a second network when the first is not accessible is known from D1 (page 13, lines 19-27).
- (v) Claims 7, 15 and 23: affecting an order of priority to the networks is already known from D2 (column 11, lines 25-43; Figure 9).
- (vi) Claims 8 to 11 and 24 to 27: such means for determining loss of coverage, used to activate various functions, are well known to a person skilled in the art.
- (vii) Claims 12 and 13: the fact that identification with the first network is carried out using the second identity is already known from D1 (page 11, lines 1-3). Said document also describes the activation of the first identity (page 11, lines 7-12).
- (viii) Claim 14: the transparency of
 re-initialisation is implicit from D2, since it
 is carried out without user intervention.
- (ix) The stages described in Claim 16 are well known to a person skilled in the art.

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(x)	The means defined in Claims 21 and 22 are
	obvious for a person skilled in the art.

International application No. PCT/FR 00/00423

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 1. The independent Claims are not presented in the two-part form (PCT Rule 6.3(b)).
- Documents D1 and D2 have not been cited and briefly outlined in the introductory part of the description (PCT Rule 5.1(a)(ii)).

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 1 has not been clearly defined (PCT Article 6). The third method step, i.e. "the mobile station enters the coverage area of the first telecommunication network" does not appear to be a step but a condition for the subsequent step, i.e. "the subscriber identification module automatically identifies itself ...". The wording of Claim 1 does not correctly reflect this fact.